

Assignment-7

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Download all python codes from

<https://github.com/BatharajuRamana/Assignment7/tree/main/Assignment7>

and latex-tikz codes from

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1 QUESTION No-2.70

Find \mathbf{P}^{-1} . if it exists, given $\mathbf{P} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix}$

2 SOLUTION

Given that

$$\mathbf{P} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix} \quad (2.0.1)$$

$$\xleftrightarrow{R_2 \leftarrow R_2 + 1/2R_1} \begin{pmatrix} 10 & -2 \\ 0 & 0 \end{pmatrix} \quad (2.0.2)$$

$$\det \mathbf{P} = 0$$

Does not exists \mathbf{P}^{-1}